1	INCLUDING JUSTIFICATION OR QUADDING OF PRINT-LINE	29	.For typing on flat blueprint or drawing (e.g., "platenless"
2	.Including quadding of print-line	2.0	typewriter)
3	.By programmed-control-system	30	.For typing on carton or package
4	<pre>On auxiliary-record-program (e.g., tape, card, etc.)</pre>	31	.By multidirectional movement of typewriter structure (e.g.,
5	Magnetic record	2.0	"Elliot-Fisher" structure)
6	With error-correcting storage register	32	.Bottom-strike typewriter including type-bar action or
7	Including artificial or end-	2.2	bar platen or anvil platen
	of-line hyphen	33	.Top-strike typewriter including
8	.By using "no-print" device	2.4	pivoted type-bar
9	.By interword or intercharacter	34	.Including carriage-return
	spacing		mechanism
10	Variable carriage-feed	35	.Including case-shift by shifting
	mechanism		platen
11	Carriage slidable relative to	36	.Including ribbon-feed mechanism
	its carriage-rack	37	.For typing on manifold set
12	By interword spacing only		(e.g., with type-die, etc.)
13	Including plural space-bars	38	Including feeding of wide
-3	for different spacings		carbon paper transverse to
14	.By typing line on stretchable		feed of record-medium
	medium	39	Including spool for roll of
15	.Including justification		carbon paper
10	indicator	40	Including clamp or guide for
16	FOR TYPING OR FORMING CONTINUOUS		carbon paper
10		41	Including adjustment of platen
	OR DISCONTINUOUS LINE (E.G., BY "LINER")		perpendicular to its surface
17	•	42	Including aligning and feeding
1 /	.Including programmed-control- system		manifold set
18	-	43	.Including feed of tally strip
10	.By scriber (e.g., pen, pencil,	44	.Including line-spacing mechanism
19	etc.) or with scriber guide	45	Platen shifted for line-spacing
	For writing in script	46	Including adjustment of line-
20	Rotatable disc scriber		space distance or increment
21	Responsive to carriage movement	47	Including disengagement of
22	.Underscoring concurrently with		line-spacing mechanism
0.3	character imprinting	48	.Work support (e.g, sheet or card
23	FOR TYPING ON FLAT RECORD-MEDIUM OR AGAINST FLAT PLATEN		holddown or guide, sheet-size platen, etc.)
24	.For typing on a book	49	.Collating-table attachment
25	Including a type-head (e.g.,	50	INCLUDING DELAY MEANS FOR
	cylinder, disc, etc.)	30	PREVENTING MALFUNCTION IN
26	Against cylindrical backing		POWERED TYPEWRITER
27	Including adjustment of	51	.Delay of sequential character
	typewriter relative to book	J 1	rate in programmed-control
	(e.g., to compensate for book		typewriter
	thickness)	52	.Delay by storage of next
28	Including adjustment of book	24	character to be imprinted
	support relative to typewriter	53	INCLUDING ADJUSTMENT MEANS TO
	(e.g., for top or bottom of	JJ	COMPENSATE FOR WEAR
	book, etc.)		COMPENSATE FOR WEAR

54	SAFETY SWITCH OR CONDITION- RESPONSIVE-CUTOFF SWITCH FOR	75	.Including type-bar selection using mechanical program
	ELECTRICALLY POWERED TYPEWRITER	76	INCLUDING CONTROL OF FORMAT BY PROGRAMMED-CONTROL-SYSTEM
55	INCLUDING ADJUSTMENT FOR OPTIMUM	77	TYPEWRITER CONTROLS OTHER
	PRINTING PLANE		INFORMATION RECORDER
56	.Responsive to thickness of	78	.Typewriter controls apparatus
	record-medium		used for accounting function
57	.In accordance with the number of sheets of record-medium	79	And a tape-punch or card-punch
58	.By adjustment of platen relative	80	apparatus .Typewriter (e.g, output
50	to carriage	80	
59	.By adjustment of carriage (e.g,		typewriter) controls tape- punch or card-punch apparatus
39		81	
60	carriage-guide rollers)	81	And imprints the character
60	Via adjustment of case-shift linkage		represented by the punched code on the tape or card
61	INCLUDING CONTROL OF FORMAT AND	82	INCLUDING PLURAL, INDEPENDENTLY
	SELECTION OF TYPE-FACE BY		SUPPORTED KEY-BOARDS, PLATENS,
	PROGRAMMED CONTROL-SYSTEM		OR TYPE-SET ASSEMBLAGES
	(E.G., INPUT TYPEWRITER)	83	DISPLAYING TYPEWRITER-FORMED
62	.Including means for responding		REPRESENTATION OF PRINT-LINE
	to input program or incoming	84	.By projecting typed image on
	signals and providing output		screen
	program or signals	85	Including transparent or
	representing typing operations		transluscent record-medium
	<pre>(e.g., output typewriter)</pre>	86	OPERATING BY SOUND
63	.Including editing or revision	87	FOR OPERATION BY HANDICAPPED USER
	system	88	POCKET TYPEWRITER
64	.Including right-hand margin	89	KEY REASSIGNMENT
	control system	90	.Electrically powered
65	.Including typing of graphical	91	STENOGRAPHIC TYPEWRITER
	representations	92	.Using common-letter type-face
66	.Including baseplate attachment	93	Including plural type-faces
	with electromagnets for input	93	mounted on carrier and movable
	or output operations		for selection of type-face
67	.Separate interrelated programs	94	.Electrically powered
68	Including message writing (e.g,		
	address program, form-letter	95	LOGOTYPE TYPEWRITER (E.G., WORD
	program, etc.)	0.6	TYPING)
69	.Type-face selection via magnetic	96	.Including date-stamp type-face
	program tape	97	.Including signature type-face
70	INCLUDING SELECTION OF TYPE-FACE	98	.Actuation of single key types
, 0	BY PROGRAMMED-CONTROL-SYSTEM		plural characters
	OR BY REMOTE CONTROL	99	Characters typed simultaneously
71	.Plural typewriters coupled for	100	PLURAL-KEY-ACTUATED TYPEWRITER
, _	simultaneous operation (e.g.,		(E.G., PERMUTATIVE KEY-BOARD)
	"master-slave" relationship)	101	.Having type-faces disposed on
72	.Including character-selection		pivotable type-bars
/ ᠘	latches (e.g., for type-face	102	.Having type-faces disposed on
	selection)		rotatable type-head
73		103	CODE-PRINTING TYPEWRITER (E.G.,
13	.Including particular reader		FOR PRINTING A PATTERN OR
71	structure and operation		MARK)
74	.Including error detection	104	.For typing and encoding
		105	Including magnetic encoding

106	.Including coded ink (e.g.,	124.02	With signal conditioning
	phosphorescent or color-coded	124.03	Overheat protection
107	ink, etc.)	124.04	Responsive to impact member
107	.For coding by conductive mark	104 05	position
108	.For marking laundry	124.05	Control of drive force
109	FOREIGN LANGUAGE OR BRAILLE TYPEWRITER	124.06	Manifold form or plural copies
109.1	.Braille	124.07	With wear or defect
110	.Including Oriental language		compensation
111	.Including Semitic language	124.08	Plural printheads
112	ANNULAR TYPEWRITER (E.G., FOR	124.09	Multicolor
	TYPING AROUND CIRCUMFERENCE OF	124.1	With inking
	PLATEN)	124.11	Printhead
113	.Including vertically disposed	124.12	Having assembly means
	platen	124.13	Overheat protection
114	.Platen axis horizontal and	124.14	With actuator
	extending front-to-rear	124.15	Single actuator for
115	.Powered Actuated		simultaneous actuation of
116	MUSIC-ROLL OR MUSICAL-NOTATION		plural impact members
	TYPEWRITER	124.16	Electrostrictive,
117	.Musical-notation typewriter		magnetostrictive, or
118.1	TYPING BY HEATED DIE		piezoelectric
118.2	TYPING BY OTHER THAN TYPE-FACE OR	124.17	Actuator having electromagnet
	TYPE-DIE	124.18	Electrical component
118.3	.Electroconductive transfer	124.19	Moving coil
120.01	.Thermal	124.2	Permanent magnet
120.02	Multicolor	124.21	With biasing means
120.03	Having multilayered colored	124.22	Backstop
	transfer material	124.23	Armature structure or
120.04	Having single layer colored		mounting
	transfer material	124.24	Impact member guide
120.05	Block driving	124.25	With lubricator
120.06	Sequentially	124.26	Specific material
120.07	Gradational recording	124.27	Including shifting of guide
120.08	Preheating	124.28	Impact member tip arrangement
120.09	Density control	124.29	Impact member structure
120.1	By number of heated recording	124.3	Tip cross-section
	elements	124.31	With attachment or engagement
120.11	In accordance with output		means
	characteristic of recording	124.32	Specific material
	elements	127	TYPING TO PRODUCE EMBOSSED
120.12	By voltage regulation		CHARACTER
120.13	By transfer material or record	128	.Character embossed or typed on
	receiver		nonplanar article (e.g., golf
120.14	In accordance with temperature		ball, toothbrush, etc.)
	of the recording means	129	.By type-die mounted on carrier
120.15	By history of recording		movable for selection of
	elements		character
120.16	Recording means support or	130	Including programmed-control-
	actuator		system
120.17	Adjustable	131	Electrically powered
120.18	Pre- or post-image recording	132	Type-die reciprocable on
	treatment		carrier
124.01	.Character formation by impact	133	On endless-band carrier
	(e.g., wire matrix)	134	On rotatable carrier

134.1	Actuated by key-board control	145.1	Rotatable carrier
134.2	Including type-die movable	145.2	Cylindrical carrier
	relative to carrier	146	.Including endless-band carrier
134.3	With magazine for supply of		for type-faces
	record-medium plates	147	.Type-faces arranged in
134.4	On manually held embosser		rectilinear row and selected
134.5	Including web supply of		by reciprocable movement
	record-medium	148	On rotatable carrier having
134.6	Including web supply of		plural rectilinear rows
	record-medium	149	.Plural type-heads mounted for
135	TYPING TO PRODUCE PIERCED		selective individual type-
	CHARACTER		head-imprinting movement
136	.Cutout character for stencil	150	Type-heads arranged for
137	.Check-protection character		selective individual
138	By type-die mounted on carrier		imprinting movement away from
	movable for selection of	1 = 1	coaxial rest position
	character	151	Turret carrier for type-heads
138.1	Electrically powered	151.1	Axis of turret carrier
138.2	On rotatable carrier (e.g.,	150	parallel to platen axis
	for scarifying elements, etc.)	152	.Type drum having multiple type-
138.3	Actuated by key-board control	1 5 2	set-assemblages
138.4	Including plural-character	153	.Imprint by movement of record-
	type-die	154	medium against type-face
138.5	And rotating contact with	154	By hammer impacting record-
	platen		medium against type-face on type-head (e.g., type shuttle,
138.6	For type-die including		etc.)
	piercing or cutting elements		•
		154 1	Including selection of type-
139	INCLUDING TYPE-SET-ASSEMBLAGE	154.1	Including selection of type-
139	MOUNTED ON CARRIER AND		face
139	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR	154.1	faceVia pulley and cord
139	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF		<pre>faceVia pulley and cord arrangement (e.g., summing</pre>
	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE		<pre>faceVia pulley and cord arrangement (e.g., summing displacements)</pre>
139	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable	154.2	<pre>faceVia pulley and cord arrangement (e.g., summing</pre>
140	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrier	154.2 154.3	<pre>faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or</pre>
	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on	154.2 154.3	<pre>faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g,</pre>
140 141	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrier	154.2 154.3	<pre>faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)</pre>
140	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable	154.2 154.3 154.4	<pre>faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g,</pre>
140 141	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrier .Slidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its	154.2 154.3 154.4	<pre>faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive</pre>
140 141 141.1	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axis	154.2 154.3 154.4	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selection
140 141	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on	154.2 154.3 154.4	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or
140 141 141.1 142	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrier	154.2 154.3 154.4 154.5	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic means
140 141 141.1	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier	154.2 154.3 154.4 154.5	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function
140 141 141.1 142	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrier	154.2 154.3 154.4 154.5 155	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)
140 141 141.1 142	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on pivotable arms	154.2 154.3 154.4 154.5 155	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of
140 141 141.1 142 143	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on	154.2 154.3 154.4 154.5 155.1 156	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projections
140 141 141.1 142 143	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on pivotable armsType-face-carrier including	154.2 154.3 154.4 154.5 155.1 156	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated
140 141 141.1 142 143	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE Including type-faces movable relative to type-face-carrier Slidable type-faces mounted on reciprocable carrier On rotatable or oscillatable carrier reciprocable along its axis Slidable type-faces on rotatable carrier Rotatable type-face carrier including type-faces on pivotable arms Type-face-carrier including type-faces on flexible arms	154.2 154.3 154.4 154.5 155.1 156 156.1	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)
140 141 141.1 142 143	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on pivotable armsType-face-carrier including type-faces on flexible armsRotatable or oscillatable	154.2 154.3 154.4 154.5 155.1 156 156.1	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)Via planetary gear
140 141 141.1 142 143 144 144.1	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on pivotable armsType-face-carrier including type-faces on flexible armsRotatable or oscillatable carrier	154.2 154.3 154.4 154.5 155 155.1 156 156.1	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)Via planetary gear arrangement
140 141 141.1 142 143 144 144.1	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on pivotable armsType-face-carrier including type-faces on flexible armsRotatable or oscillatable carrierCarrier having coplanar	154.2 154.3 154.4 154.5 155.1 156.1 156.2 156.3	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)Via planetary gear arrangementIncluding latch means
140 141 141.1 142 143 144 144.1	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on pivotable armsType-face-carrier including type-faces on flexible armsRotatable or oscillatable carrierCarrier having coplanar flexible arms (e.g., "daisy"	154.2 154.3 154.4 154.5 155.1 156.1 156.2 156.3	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)Via planetary gear arrangementIncluding latch meansIncluding type-faces arranged
140 141 141.1 142 143 144 144.1 144.2	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE .Including type-faces movable relative to type-face-carrierSlidable type-faces mounted on reciprocable carrierOn rotatable or oscillatable carrier reciprocable along its axisSlidable type-faces on rotatable carrierRotatable type-face carrier including type-faces on pivotable armsType-face-carrier including type-faces on flexible armsRotatable or oscillatable carrierCarrier having coplanar flexible arms (e.g., "daisy" wheel, etc.)	154.2 154.3 154.4 154.5 155.1 156 156.1 156.2 156.3 157 157.1	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)Via planetary gear arrangementIncluding latch meansIncluding type-faces arranged along helical path(s)
140 141 141.1 142 143 144 144.1 144.2	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE Including type-faces movable relative to type-face-carrier Slidable type-faces mounted on reciprocable carrier on rotatable or oscillatable carrier reciprocable along its axis Slidable type-faces on rotatable carrier Rotatable type-face carrier including type-faces on pivotable arms Type-face-carrier including type-faces on flexible arms Rotatable or oscillatable carrier Carrier having coplanar flexible arms (e.g., "daisy" wheel, etc.) Continuously rotated carrier	154.2 154.3 154.4 154.5 155.1 156.1 156.2 156.3 157	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)Via planetary gear arrangementIncluding latch meansIncluding type-faces arranged along helical path(s)Including particular structure
140 141 141.1 142 143 144 144.1 144.2	MOUNTED ON CARRIER AND RELATIVELY MOVABLE FOR SELECTION AND FOR IMPACT OF TYPE-FACE Including type-faces movable relative to type-face-carrier Slidable type-faces mounted on reciprocable carrier On rotatable or oscillatable carrier reciprocable along its axis Slidable type-faces on rotatable carrier Rotatable type-faces on pivotable arms Type-face-carrier including type-faces on flexible arms Rotatable or oscillatable carrier Carrier having coplanar flexible arms (e.g., "daisy" wheel, etc.) Continuously rotated carrier Manually rotated carrier	154.2 154.3 154.4 154.5 155.1 156 156.1 156.2 156.3 157 157.1	faceVia pulley and cord arrangement (e.g., summing displacements)By shortest peripheral pathVia coded disc in electric or magnetic circuit (e.g, photoelectric)Via stepping motor responsive to selectionVia electrical or electromagnetic meansIncluding plural-function actuation by electromagnet(s)Via helical arrangement of projectionsVia mechanically permutated bar(s), disc(s), or plate(s)Via planetary gear arrangementIncluding latch meansIncluding type-faces arranged along helical path(s)Including particular structure of hammer(s)

157.3	For variable impression (e.g., impact control)	164.4	Via stop pins actuatable by key-board
157.4	Hammer(s) mounted on endless	164.5	Toothed member connected to
	belt or in helical array		selection gear and slidable by
158	Including platen for moving		key-lever movement
	record-medium against type-	164.6	Selection gear rotated by key-
	face and mechanism for feeding		lever movement
	record-medium	165	Simultaneous rotation and
158.1	Including moving and feeding	103	translation of type-head by
130.1	by platen		manually powered actuation
159			(e.g., helical shift)
139	Including platen for moving	165.1	
	record-medium against type-	103.1	Via manually powered actuation
	face and mechanism for inking		other than by key-board (e.g,
1.60	type-face	165.0	stylus selection)
160	.Imprint by pivoting of type-	165.2	Including type-head movable
	head-carrier and type-head		to print-point by actuator
	against record-medium		common to all type faces
161	Type-head-carrier movable on	165.3	Selection by rotatable dial
	movable carriage	166	Including impact control
161.1	Including selection of type-	167	Including rebound control
	face (e.g., on "golf ball"	168	Articulated-support joint
	type-head)	169	Detenting to fix type-head for
161.2	Via gear train		imprinting
161.3	Gears mounted on type-head	170	Including movable printing
	and type-head-carrier		anvil within type-head
161.4	Including gear (e.g., rack)	171	.Plural type-set-assemblages
	reciprocated by transmission		selectively movable from a
	mechanism		storage station to a printing
161.5	Via multiple cam surfaces		station
162	Type-head movable for selection	172	.Type-faces mounted on type chips
102	of type-face	1 / 2	and removable from storage for
162.1	Via pulley and cord		printing
102.1	arrangement	173	.With means for exposing last-
162.2	Via shortest peripheral path	175	typed character
162.3	Via shortest peripheral pathVia coded disc in electric or	174	
102.3			.Type-head, per se
	magnetic circuit (e.g.,	175	Detachable from carrier (e.g.,
160	photoelectric)	100	interchangeable)
163	Via stepping motor responsive	176	HAVING FLUID-PRESSURE POWER DRIVE
	to selection	177	.Including pneumatic decoder for
163.1	Via electrical or		perforated tape
	electromagnetic means	178	.For producing typewriter-control
163.2	Including electromagnetically		tape (e.g., perforated tape,
	actuated type-head movement		etc.)
	toward record-medium	179	.For type-face selection or
163.3	Including plural-function		choice
	actuation by electromagnet(s)	180	Including key-board driven by
164	Via helical arrangement of		external pneumatic source
	projections	181	By pneumatic actuation of type-
164.1	Via pneumatic actuation		face or type-bar
164.2	Via setting elements actuating	182	.For movement of carriage or
	<pre>selector-command member(s)</pre>		platen
164.3	Control arm connected to	183	Including line-spacing
	selection gear and movable to		
	engage key-lever actuated		
	abutment		

184	HAVING TYPEWRITER-CONTROLLED	205	Including holder for short
	RECIPROCABLE ELECTROMAGNETIC		length of ribbon
	DRIVE FOR PLURAL FUNCTIONS IN	205.1	Holder movable to inoperative
105	SAME TYPEWRITER		position on typewriter
185	HAVING POWER-DRIVEN OPERATOR FOR PLURAL FUNCTIONS	206	<pre>Using plural ribbons (e.g., additional ribbon(s)</pre>
186	.Via continuously rotated power	206.1	Including "carbon paper"
	roll selectively connected to		ribbon
	operate	206.2	And ribbon holder movable to
187	.Usable selectively (e.g., for powered or manual operation,		inoperative position on typewriter
	alternative usable functions,	206.3	On plural coaxial spools
	etc.)	206.4	On single spool
188	FOR TYPING ON REVERSE SURFACE OF	207	.Package for ribbon facilitating
	RECORD-MEDIUM		mounting of ribbon on
189	.By simultaneous use of both		typewriter (e.g., ribbon
	surfaces of same ribbon		cartridge)
190	.By use of "carbon paper"	208	Package attached to typewriter
191	INCLUDING INTERPOSED INKING	208.1	And includes separable
	DEVICE (E.G., RIBBON) FOR		assemblage of spools
	RECORD-MEDIUM	209	.For bottom-strike typewriter
192	.Moved by continuously rotating	210	.For boldface typing
	power drive intermittently	211	.Including mechanism for shifting
	applied		ribbon laterally at print-
193	.Inking device handheld during		point
	typing	212	Via electrically powered
194	.Endless ribbon or cartridge		actuator
	therefor	213	For impact of successive type-
195	Mobius strip		faces on one field of ribbon
196	Including storage (e.g., in		in path not parallel to
	cartridge, etc.) of ribbon		longitudinal extent of ribbon
196.1	Having ribbon stored in		(e.g., "zigzag", oblique,
100	pleated form	010 1	etc.)
197	Renovation of used ribbon	213.1	Via ribbon vibrator
198	With ink heater (e.g., for	214	Plural ribbons shiftable
100	melting solid ink)		<pre>laterally (e.g., by duplicate vibrators)</pre>
199	By discrete auxiliary band movable with ribbon	215	By ribbon vibrator
200		215.1	Including vibrator shiftable
200 201	Selectively actuatable re-inkerOf multicolor ribbon	213.1	during use of nonfeed
201	Renovator attachable to		character key (e.g., for
202			typing accent mark, etc.)
	typewriter for replenishing ribbon ink	215.2	With retardation of vibrator
202.1	Attached to ribbon spool	213.2	return after type-face impact
202.1	And includes refillable		(e.g., with dashpot)
202.2	chamber (e.g., reservoir) for	215.3	With elevation and holding of
	liquid ink		vibrator above print-point
202.3	And conveyor of discrete		(e.g., to facilitate ribbon
	drops of ink		insertion)
202.4	And re-inking roller	215.4	With inactivation of vibrator
203	.Ribbon disposed within platen		(e.g., for cutting a stencil)
204	.For typing plural copies	216	Including variable throw of
	simultaneously with ribbon(s)		vibrator
	<pre>(e.g., duplicate typing)</pre>	216.1	For diverse-field (e.g.,
			plural-color) ribbon

216.2	With typewriter-controlled change of field	225	Including electrically powered drive means (e.g., solenoid,
216.3	By movement parallel to print-line	226	stepping motor, etc.)For feeding ribbon partial
216.4	Vibrator throw controlled via alternate pins selectively inserted in slots		character-space before impact and partial character-space after impact
216.5	Field selection by selectively positioned stop faces to limit vibrator	227	<pre>For narrow carbon ribbon (e.g., carbon ink, "single use", etc.)</pre>
016.6	movement	227.1	Ribbon destroyed after use
216.6 217	To compensate for case-shiftTo shift impact path (e.g.,	227.2	Or for alternatively used fabric ribbon
	during ribbon reversal)	228	Including pin-feed-engaging
217.1	By adjustable ribbon guide		ribbon
210	spaced from supply spool	229	Mounted with movable type-face-
218	.Ribbon-reversing mechanism	220	carrier or type-head-carrier
219	Including means responsive to	230	With fast rewind of ribbon
0.1.01	depletion of ribbon supply	231	With prevention of ribbon feed
219.1 219.2	Including an electric switchIncluding lever retained in		<pre>(e.g., for nontype operation, etc.)</pre>
217.2	spool by wound ribbon	232	Including feed at particular
219.3	Including senser for diameter		feed rate (e.g., "creep" feed)
	of wound ribbon	233	Ribbon feed from supply only
219.4	Senser received in depression		during carriage return
	in core of spool	234	Including ribbon tensioner
219.5	Including projection from ribbon	235	Drive applied by means directly engaging ribbon in advance of
220	Alternative pawl-and-ratchet		takeup
	drive including ratchet	235.1	Drive applied by pinch-roller
	directly connected to spool or spindle	236	coupleDrive applied directly to spool
220.1	Including a common pawl member		or spool spindle
000 0	(e.g., double-toothed pawl)	236.1	By a pawl driving a ratchet on
220.2	Including member interposed in pawl drive path	236.2	the spool or spindleBy a gear driving a gear on
221	Alternative gear drive		the spool or spindle
	including gear directly	237	.Ribbon, per se
001 1	connected to spool or spindle	238	Having leader portion (e.g.,
221.1	And gears mounted on ends of	0.2.0	for threading, etc.)
221.2	axially shiftable common shaftAnd gears mounted on ends of	239	With ribbon-reversing indicator or device on ribbon
221.2	pivoted common shaft	240	Including differently pigmented
222	Alternative clutch drive		fields
	including clutch member directly connected to spool or	240.1	Including correction-material field
	spindle	240.2	With prevention of bleeding
223	.Ribbon-feeding mechanism		between adjacent fields
224	<pre>For feeding ribbon angularly to print-line at print-point</pre>	240.3	Including fields arranged transversely to elongated
224.1	Ribbon fed perpendicular to		dimension of ribbon
	print-line at print-point	240.4	Including more than two fields
224.2	Ribbon is full-page wide	241	Particular ribbon material
- · -	2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2	241.1	Synthetic material

241.2	Wherein ink is entrapped in	263.1	By pivoting type-face relative
	ribbon material (e.g.,		to type-bar
	microcapsules, micropores,	263.2	By rotating type-face relative
0.4.1 0	etc.)		to type-bar
241.3	Particular weave pattern	264	.For shifting platen
241.4	Including ink-impervious	265	Fore-and-aft (e.g., for top-
0.4.0	backing for ribbon		strike or bottom-strike
242	.Ribbon spool or mount therefor		typewriter)
243	Universally adaptable	266	Mounted on pivotally movable
244	Including ribbon-reversing		platen carrier
	indicator or device on spool	266.1	With movement of platen out of
245	or mount	0.5.5.0	typing position
245	Including magnetic retainer	266.2	Including adjustable
246	Spool for full-page-wide ribbon	066.3	counterbalance spring
247	.Means auxiliary to ribbon	266.3	Including a yieldable link
	mechanism (e.g., shield,	0.65	(e.g., spring, etc.)
249	guide, etc.)	267	By depression of space-bar
248 248.1	Including guide for ribbon	268	.For shifting type-face or type-
240.1	Ribbon guide opening	260	bar
	expandable to facilitate ribbon insertion	269	By shifting type-bar or type-
248.2	And typewriter-actuated	260 1	face on type-bar
240.2	closing of guide	269.1	By pivoting type-face relative
248.3	Including electrical,	270	to type-bar
240.5	magnetic, or pneumatic guide	270	Mounted on type-bar support
	means		(e.g., guide pin, type-bar-
249	Including indicator for	270.1	segment, etc.)
217	depletion of ribbon (e.g.,	270.1	Ring hanger support
	bell, sign, etc.)	270.2	Including ball-bearing supportIncluding pivoted-lever
250	Including tool for inserting	270.3	support (e.g., cantilever
200	ribbon		spring, etc.)
251	CASE-SHIFT MECHANISM	271	.By choosing from one of a
252	.Including programmed-control-	271	plurality of type-bars
	system		operated by a single key
253	.Including electronic control or	272	.Including key attachment for
	code-bar control		case-shift
254	.Controlled by typewriter-	273	Operated by user's leg, (e.g.,
	actuated mechanism		foot, knee, etc.)
255	.Including plural case-shift	274	.For locking case-shift mechanism
	mechanisms (e.g., for		in position (e.g., rebound
	simultaneous or selective use)		lock, cam, etc.)
256	.Actuated by toggle-linkage	275	For locking platen in fore-and-
257	.For case-shift by type-head		aft position (e.g., by
	(e.g., spherical type-head)		overcenter spring, etc.)
	movement	276	For locking shift-key lever in
258	.Power-operated mechanism (e.g.,		depressed position
	for locking shift key)	276.1	By toggle-linkage
259	For shifting platen	276.2	By means pivoted on shift-key
260	For shifting type-bar-segment		lever
261	.Multiple-shift mechanism (i.e.,	277	.Including limit stop (e.g.,
	for type-bar having three or		block, chain, etc.)
	more type faces thereon)	278	Including limit screw
262	For shifting type-bar-segment	279	CONTROL OF PRINT POSITION ALONG
263	For shifting type-bar or type-		PRINT-LINE BY SIGNAL GENERATED
	face on type-bar		BY PROGRAMMED-CONTROL-SYSTEM

280	.Program is indicia on auxiliary member	295.2	Stop shifts laterally along tab-rack
281	Member is punched tape or card	296	Stop setting by movement of
282	.Program is indicia on record-		tab-rack
-	medium	296.1	Tab-rack rotates about its
283	CARRIAGE OR CARRIAGE-MOVING OR		axis
	MOVEMENT-REGULATING MECHANISM	296.2	Plural tab-racks
284	.For stopping carriage in tabular	297	Stop setting by partial
201	position (e.g., column-set		rotation of tab stop relative
	positions)		to tab-rack
285	In denominational positions	297.1	Stop setting by pivoting
285.1	And column-set positions	207.1	pawllike stop
285.2	Tab-rack stop intercepted by	298	Tab-stop or tab-rack structure,
203.2	denominational-stop	200	per se
285.3	Tab stops grouped in stepped	299	.With rotatable type wheel for
	fashion		repeat printing in response to
285.4	With control of zero or space		carriage movement
	for decimal point	300	.Key-actuated mechanism for
285.5	With reverse-direction		nonfeed of carriage (e.g.,
	movement of carriage		"silent" key, locking
285.6	Helically mounted		carriage, etc.)
	denominational-stop(s)	301	By disabling carriage-
286	Shiftable denominational-		escapement mechanism
200	stop(s)	302	By key actuated independently
286.1	Step-shaped denominational-		of carriage feed
	or tab-stop(s)	303	.For varying carriage feed
286.2	Engaging movable tab-rack	304	For kerning or overlap
	means		imprinting
286.3	With latch or lock means	305	By force-feed or screw-feed
287	Column set by control of		mechanism
207	mutilated carriage-rack	306	Proportional to variable widths
288	Column set by control of tab-		of imprinted characters
	rack	306.1	By settable elements (e.g.,
289	Column set by control of tap-		pins, bars, slides)
	stops or column-stops or	306.2	By ratchet-wheel and
	counter-stops		controlled pawl
289.1	Tab-stops grouped in stepped	306.3	Including multiple pawls
207.1	fashion	306.4	And multiple wheels
290	Forward or reverse tabulation	307	By ratchet rack and controlled
291	With impact cushion or rebound		pawl
271	check	307.1	Including multiple pawls
292	With control of carriage	307.2	By cooperating toothed members
272	velocity	30712	(e.g., gear, segment, rack,
293	By multiple-pitch tab-racks or		etc.)
275	multilated gear	308	.Carriage backspace mechanism
294	Stop-setting or stop-clearing	309	Backspace proportional to
2) 1	mechanism	303	variable width of imprinted
294.1	With stop magazine (i.e., for		characters
△ ノ 1. ⊥	supply of stops)	310	Including powered drive means
294.2	With key-locking mechanism	311	Including pawl and escapement
294.2			wheel
294.3	Drum-mounted tab-stops	312	Including pawl and escapement
49J	Stop setting by linear shift of tab-stop or counter-stop	J = =	rack
295.1	Stop shifts horizontally from	313	.Carriage-return mechanism
•	tab-rack	314	With concurrent line-spacing

314.1	Using electromagnetic drive	329.2	Carriage-feed initiated and
314.2	For selected number of line-		completed during depression of
	spaces		character key (e.g., "speed"
314.3	With disconnection of return		or "reverse" escapement)
	by margin-stop	329.3	Pawl rocker spring regulating
314.4	Initiated by user's leg or		device
	foot	330	Via ratchet wheel connected to
314.5	Initiated by actuator adjacent		pinion and carriage-rack
	key-board	330.1	And plural pawls
314.6	By return-clutch means	330.2	For half-drop escapement
315	Responsive to carriage position	330.3	Mounted on pivotable pawl
316	Partial return (e.g., for start		carrier or rocker
310	of paragraph, etc.)	330.4	Including pawl(s) fixed to
317	Including power drive (e.g.,	33011	rocker
317	electric, spring, etc.)	330.5	And slidable pawl
317.1	For bidirectional drive	330.6	Including pawl pivoted
317.1		330.0	about axis parallel to rocker
-	By spring-driven motor		axis
317.3	Powered via engagement of a	330.7	
0.1.0	clutch	330.7	Mounted on movable (e.g.,
318	Initiated by actuator adjacent		rotatable, slidable) pawl
	key-board	220 0	carrier
319	.Carriage-feed mechanism (e.g.,	330.8	Including particular
	escapement, etc.)		structure of pawl (e.g.,
320	For carriage on which a type-		pivoted, unitary, with roller,
	head-carrier is mounted	221	etc.)
320.1	With concurrent movement of	331	Including plural ratchet
	carriage for record-medium and	221 1	wheels
	carriage for type-head-carrier	331.1	Including particular
321	With repeat spacing		structure of ratchet wheel
322	By electric or magnetic power	331.2	Including cushioned
323	Carriage-feed in two directions		escapement support (e.g.,
	(e.g., continuous typing in		rocker, pawl buffer, etc.)
	both directions)	331.3	Including particular
323.1	In selected direction (e.g.,		structure of mount for ratchet
	for Semitic language, etc.)		wheel (e.g., bearing, clutch,
324	Word-space concurrent with		etc.)
	typing of last character of	332	Via toothed rack
	word	332.1	And plural pawls
325	By space-bar mechanism (e.g.,	332.2	Mounted on pivotable pawl
	separate connection to		carrier or rocker
	escapement) or paragraph-	332.3	Mounted on movable (e.g.,
	indentation key		rotatable, slidable) pawl
326	With compensator for tilt of		carrier
	typewriter	332.4	Including particular
327	For diagonal print-line		structure of pawl (e.g.,
328	By force-feed or screw		slidable, pivoted, unitary,
320	mechanism (e.g., direct drive,		etc.)
	screw-biasing carriage, etc.)	332.5	Including plural toothed
328.1	Including pawl and toothed		racks (e.g., pivoted, etc.)
220.1	rack	332.6	Including particular
329	Carriage escapement controlled		structure of rack (e.g.,
247	by pawl		toothed, slidable, etc.)
329.1	Means to ensure engagement of	333	Universal-bar or actuator
J 4 J . I	pawl at start of print-line		therefor
	(i.e., overbanking control)		
	(1.e., Overbanking Concrot)		

333.1	Connected to actuator for another function	354.1	Guideway cooperating with ball bearings or roller bearings
333.2	Adjustable	354.2	Including bearing holder
333.3	Actuated by type-bar or type-	331.2	geared to carriage
333.3	bar action	354.3	Including respositionable
334	Carriage-feed-release mechanism	331.3	quideway
334.1	By disengagement of clutch	355	.Means for repositioning carriage
331.1	between ratchet wheel and	333	or platen thereon
	pinion	356	To nonprint position
334.2	By disengagement of escapement	357	To detach carriage
331.2	pawl(s)	358	To detach platen
334.3	From carriage-rack	359	HAVING TYPEWRITER-CONTROLLED
335	With particular connection to		RECIPROCABLE ELECTROMAGNETIC
333	carriage (e.g., gear train,		DRIVE FOR TYPE BAR ACTUATION
	pulley and strap, etc.)		IN SAME TYPEWRITER
336	Spring-biasing carriage for	360	.Including electromagnetic return
	feed		of universal actuator
336.1	Torsion spring in rotatable	361	.Including actuator to complete
	barrel		depression of selected key or
337	.Carriage-retarder mechanism		key lever
338	Including governor responsive	362	.Including universal actuator to
	to speed or momentum		actuate selected type-bar
338.1	Using centrifugal force		action
338.2	Using inertial force retarder	363	And individual solenoids to
	(e.g., flywheel, weight, etc.)		connect the type-bar action to
339	Using fluid or fluent-material		be actuated
	retarder	364	.Including individual solenoids
340	Using frictional retarder		to actuate the selected type-
	(e.g., strap, disc, drum,		bar action
	etc.)	365	HAVING ROTATED POWER DRIVE
341	Carriage-buffer stop or rebound		INTERMITTENTLY APPLIED FOR
	control		TYPE-BAR ACTUATION
342	.Margin-regulator (e.g.,	366	.Including jam-release means
	adjustable margin-stop)	367	.Interposed components driven by
	mechanism		filter shaft
343	With intermediate margin-stop	368	.For repeat-type action
344	With other typewriter function	369	With prevention of repeat
	controlled by margin-stop		typing
	(e.g., signal, line-space)	370	.Via continously rotated power
345	Carriage-arrest function		roll
	(e.g., "overbank")	371	And oscillatable cam
346	Print-line locking function	372	And rotatable cam (e.g.,
347	With multiple-pitch selector		single-lobe cam)
348	With release of margin-stop	373	Including double-lobe cam
349	Conjointly set or centrally	374	And friction leg (e.g., other
	spring biased		than by cam)
350	On record-medium table or	375	Snatch roll
	paper-finger	375.1	Including plural coaxial
351	Margin-stop structure, per se		snatch discs
352	.Carriage, per se, or guideway	375.2	With control of impact force
	therefor	375.3	With electromagnetic control
353	Including auxiliary carriage		of pawl
354	Guideway or bearings for	375.4	And star wheel
	carriage	376	With control of impact force
		377	.Via limited-rotation clutch

378	Plural cams clutched to drive shaft	402	<pre>By breaking toggle-linkage (e.g., to pull type-bar to</pre>
379	.Via spring drive (e.g., spring- driven snatch roll)	403	<pre>print-point)By straightening toggle-linkage</pre>
380	Including individual spring for each type-bar action	103	(e.g., to push type-bar to print-point)
381	Including reciprocable common actuator	404	Including adjustment of toggle- linkage anchor position
382	.Via reciprocating common	405	By type-bar connecting link
302	actuator	405.1	Including gear connection
202		406	By pin and slot connection
383	TYPE-BAR-ACTION MECHANISM OR TYPE-FACE ON TYPE-BAR OR TYPE-	407	Including type-bar starter
	FACE INKER	407	means
384		408	
385	.Spring drive for type-bar action	409	.For bottom-strike typewriter
	.With added-motion mechanism for type-bar near print-point	409	Including simultaneous actuation of plural type-bars
386	Including toggle-linkage	4.5.0	for simultaneous imprinting
387	Including momentum accumulator	410	With pivotally mounted platen
388	Including hammer, roller, or presser mechanism		<pre>carrier (e.g., for access, etc.)</pre>
388.1	Type-bar pivotable to vicinity	411	Type-bar actuated by rack and
	of print-point		gear
389	With power assist for mechanism	412	Including type-bar mounting
390	.With end-thrust mechanism for		arrangement
	type-bar	413	With type-face inker (e.g.,
391	Type-bar slidable on flat		ink-pad rest)
	support	414	Including key or key-lever
391.1	Driven by gear means	415	arrangement
391.2	Driven by cam means	415	.For top-strike typewriter
391.3	Driven by toggle-linkage	416	Including type-bars pivoted on
391.4	With power assist for mechanism		both sides of, or above and across, platen axis
392	Including momentum accumulator	417	With type-face inker (e.g., ink
393	For top-strike or bottom-strike		pad, roller, etc.)
	typewriter	418	Type-bar pivoted by gear
394	.With type-bar pivot traveling		connection
	during typing movement of	419	Type-member or type-bar pivoted
	type-bar		and rotatable (e.g., for
395	Type-bar pivot on	400	selection of type face)
	longitudinally movable	420	Type-bar pivoted by push link
	carriage in top-strike	421	Type-bar pivoted by cam
	typewriter	422	.Type-bar action
396	With ink pad on type-bar rest	423	Including selectively
397	.With disconnection of type-bar		disengageable type-bar action
	action during movement thereof	404	to render action inoperable
398	<pre>.With accelerated (e.g., motion amplifying)type-bar action</pre>	424	With type-face pivoted on type- bar for rolling contact with
399	By rolling contact between	405	platen
	links	425	Including jam-release means
399.1	By key-lever rolling on	426	Including type-bar return
	fulcrum	400	before release of key lever
400	By cam-engaging link	427	Including yieldable link in
401	By breaking and straightening	420	type-bar action
	toggle-linkages	428	Including means to limit type- bar movement

429	Type-bar pushed or pulled by hooklike cam	445.4	<pre>Interchangeable (i.e., easily removable) segment</pre>
430	Type-bar pulled to print-point	445.5	With type-bar anvil
430.1	By cam means (e.g., slotted cam, helix, etc.)	446	<pre>Interconnected (e.g., nested) support bearings</pre>
430.2	By toggle-linkage	447	Ball-and-socket bearing for
430.3	With movable type-bar-segment		type-bar (e.g., universal
431	Type-bar moved to print-point		joint)
	by gear drive	448	Roller bearing or ball bearing
432	Type-bar moved to print-point		for type-bar
	by cam means	448.1	Including plural bearings for
433	Type-bar moved to print-point		each type-bar
	by toggle-linkage	449	Adjustable bearing for type-bar
434	Including connecting link or	450	Pin support for type-bar
	joint	451	Wire support for type-bars
434.1	Adjustable (e.g., in length,	452	.Type-bar structure
	etc.)	453	With type-face movable in plane
434.2	Flexible (e.g., spring, strap,		of type-bar movement
	etc.)	454	.Type-bar rest or rest support
434.3	Including connecting element	455	Including metallic material
	(e.g., joint, etc.)	456	.Type-bar or type-member guide
435	.Type-bar rebound preventer	130	structure
133	(e.g., via latch, brake,	457	Including resilient means for
	linkage, etc.)	157	energy absorption or kickback
436	.Type-bar return spring connected	458	
430	to type-bar-action linkage		Mounted on platen-carriage
437		459	For thrusted type-bar
	For impact control	460	Guide adjacent print-point
438	With adjustment means (e.g.,	460.1	Including rollers or balls
420 1	for "touch" control, ect.)	460.2	Including pin or collar
438.1	Including an indicator	461	Adjustable guide
439	Attached to type-bar or	462	.Type-member structure
	universal-bar	463	Removable type-member
440	Attached to key lever (e.g.,	464	Rotatable on type-bar
	tension spring)	465	Pivotable on type-bar
440.1	Compression spring	466	Type-face or type-die
440.2	Cantilever spring (e.g.,		configuration (e.g., reverse
	torsion, hairpin, etc.)		image, boldface, piercing,
441	.Type-bar pivot support		etc.)
442	For plural groups of type-bars	467	.Dust guard for type-bar action
442.1	Having type-bars disposed on		mechanism
	plural ring supports	468	For type-bar bearing (e.g.,
442.2	Including type-bars pivoted on		shield on type-bar-segment)
	vertical pivot(s) (e.g., moved	469	.Attachment to type-bar for
	in horizontal plane)		imprinting extra character
443	Ring support	470	.Ink-impregnated type-face or
444	Type-basket laterally movable	170	inker for type-face
	relative to platen and key-	471	Including stationary ink pad
	board	4 /1	for inking type-face directly
445	Type-bar-segment (e.g., wire	471.1	
115	journal)	4/1.1	And a wick for feeding pad
445.1		470	from reservoir
447.T	With guide for movement of	472	KEY-BOARD OR KEY LEVER-ACTUATING
11E 0	segment	450	MECHANISM
445.2	Including hanger for	473	.Including mechanism (e.g.,
445 2	individual type-bar		auxiliary key-board) for
445.3	And bearing for type-bar		activating keys

474	Electromagnetic key-board-drive	495.1	By spring means
455	mechanism	496	.Key lever or space-bar mounting
475	Operated by user's leg (e.g.,		structure (e.g., dust guard,
476	foot, knee, etc.)For actuating function key only	497	buffer, pivot, etc.) WITH CONTROL OF "CARBON PAPER"
477	Including means generating a	497	FOR TYPING PLURAL SIMULTANEOUS
1//	signal for type selecting or		COPIES BY SINGLE IMPRESSION
	other typing function		(E.G., ON "MANIFOLD SET")
478	Via slidable code bars	498	.Including prevention of full
479	Via electrical component (e.g.,		imprint on "carbon copy"
	switch, stylus, etc.) in or		record-medium
	with key-board	499	.On record-medium wound around
479.1	Capacitance-responsive switch		platen together with carbon
479.2	Electromagnetic-responsive		paper
	switch	500	.With means for causing slack in
480	.Including control of key action		web of manifold set
	(e.g., buffer, etc.)	501	By arcuate movement of carbon
481	By regulating key force or		paper carrier
	movement (e.g., key dip or	502	By clamp on carbon paper
	stroke)		carrier
482	.For stenographic typewriter	503	.By use of other than rectangular
483	.For Braille typewriter		sheet carbon paper (e.g.,
484	.For foreign-language typewriter	F 0 4	disc, etc.)
485	.Key-board having multiple-	504	Endless-band carbon paper
	character, multiple-movement	505 506	.By multicolor carbon paper
40.6	keys	506	.With means to prevent creep (e.g., relative movement)
486	.Key-board arranged according to		between record-media
487	character locationColor-coded key-board	507	.Including means for creep feed
488	.Key-board including row of keys	50,	of carbon paper
400	having different heights	508	.Including spool or support for
489	.Key-board including keys grouped		roll of carbon paper
107	to facilitate positioning of	509	Including a flat roll or core
	typist's fingers		therefor
490	.Key-cap or key-stem structure	510	And guide for changing feed
491	Including cushioning means		direction
	(e.g., yieldable surface)	510.1	Spool support shiftable to and
491.1	Including underlying air		from platen
	cushion	511	Feed mechanism for feed from
491.2	Including spring supporting	F11 1	roll of carbon paper
	key cap or key stem	511.1	Responsive to return of
491.3	With sensory indicator (e.g.,	511.2	carriageWith retraction of carbon
400	sound, tactile response, etc.)	J11.Z	paper for reuse thereof (e.g.,
492	Adjustable in plane of key(s)		by slidable carrier)
	<pre>(e.g., to facilitate reach, rotatable, etc.)</pre>	511.3	Carbon paper rewound for
493	Including character-bearing	311.3	retraction
473	disc on key cap	511.4	By driving carbon paper roll
493.1	Secured by encircling ring		directly from platen (e.g., by
1/0.1	member		endless band)
493.2	With slot for exchanging disc	512	And support for roll of record-
494	Having raised or recessed		medium
	character	513	.Including relative movement
495	Including means for mounting		between carbon paper and
	key cap or key stem		record-medium

514	Including positioning of auxiliary record-medium	524	.Holder movable responsive to case-shift
515	Including front insertion of	525 526	.Card holder carrier by platen
516	carbon paper or record-mediumBy simultaneously advancing	520	And actuated in response to platen rotation
	record-medium and retracting carbon paper	527	With platen surface modified for card
517	By means to arrest advance of	527.1	Including card gripper on
	carbon paper		platen
518	<pre>Carbon paper carrier(s) respositionable relative to</pre>	527.2	Including axially extending slot or hollow in platen
F10 1	platen	528	Holder attached via detachable
518.1	Plural carriers disposed side-		arms at ends of platen
	by-side for selective use	529	Holder attached via pins on
	singly or simultaneously		holder or via adhesive
518.2	Plural carries for serial		attachment
	retraction of plural carbon	530	Holder attached via element
	papers	330	(e.g., band) gripping platen
518.3	With means to imprint		periphery
310.3		F 2 1	
	selectively on one or more	531	.Including line-spacing of holder
	media (e.g., by holding		or card
	selected media away from	532	Variable line-spacing (e.g.,
F10 4	print-line)		platen creep)
518.4	Including retraction of carbon	533	In a curvilinear path
	paper and record-medium and	534	By pinion and rack
	subsequent advance of record-	535	.Including support engaging
	medium		bottom edge of card
519	Carbon paper carrier movable	536	.Card holder mounted on
	rectilinearly		typewriter frame
519.1	With means to hold record-	537	Including means enabling
	medium against retraction		movement of card relative to
519.2	Including means to reduce		holder
	binding of carbon paper during	538	Transparent card holder
	retraction	539	Including finger movable away
519.3	Including lifting of platen	333	from holding position
	for retraction of carrier	540	Spring urged to holding
519.4	With guard over settable	310	position
	parts (e.g., denominational	541	.Including a feed-roller
	jacks, etc.)	542	
519.5	With relative movement	342	.Card holder mounted on platen-
	betweem record media (e.g.,	F 4 2	carriage frame
	for condensed-billing, etc.)	543	.Including gripper or means
519.6	With support or guiding or	E 4 4	urging card against platen
	positive-driving structure for	544	.Backing for stencil cutting
	carrier (e.g., table,		(e.g, celluloid strip, etc.)
	adjustable stop, etc.)	545	FOR LINE-SPACING BY INCREMENTAL
519.7	Carbon paper carrier on		ROTATION OF PLATEN
	endless member	546	.To facilitate condensed billing
520	.Carbon paper holder (e.g.,		(i.e., by determining a
320	loading board, etc.)		desired limit or amount of
521	FOR TYPING ON CARD IN CARD HOLDER		retrograde or advance platen
522	.Flexible holder fed around		movement)
J 4 4	platen with single card	547	Including stop structure (e.g,
523			traveling stop, etc.)
J 4 J	.On card pierced or indented to		
	aid holding		

547.1	For arresting platen at limit of both retrograde and advance	560	Via frictional engagement of periphery of cylindrical member
547.2	<pre>movementBy stop travelling in a rectilinear path</pre>	560.1	<pre>Friction member(s) acting on inner periphery of drum</pre>
547.3	By lever or push-rod drive	560.2	Pivotable member(s)
	for platen	561	Expandable band or split
547.4	Via gear drive		ring
547.5	Including lever on axis	562	Including settable stops
010	transverse to platen axis	563	Including plural detents
547.6	Including relatively	303	selectively engageable with
317.0	adjustable coaxial gear		ratchet wheel
	segments	564	Including a drive member
547.7	Via pawl and ratchet wheel	3 0 1	engageable with line-space
0 1	drive		ratchet wheel
547.8	With spring motor	564.1	Via displaceable detent
548	With graduated scale (e.g., on	565	Detent-release structure
310	drum periphery)	566	With friction brake for platen
549	.Actuated by key on key-board	566.1	With simultaneous
550	.For multi-incremental rotation	300.1	disengagement of drive pawl
330	(e.g., "platen sweep")	567	Including gear (e.g.,
551	.For line-spacing in forward or	307	differential gear, etc.)
331	reverse direction		structure
552	.With "floating" platen	568	.By electric-power drive
553	.Via line-space / carriage-feed-	569	.By gear train (e.g., including a
333	release actuator	303	clutch)
554	.For facilitating even wear of	570	.By double-cam drive
331	platen surface (e.g., by	571	.By friction drive (e.g.,
	irregular increments, etc.)	371	including regulation of
555	.By irregular increments of		increments)
333	platen rotation (e.g., for	572	.By pawl and ratchet wheel drive
	adjustment of platen relative	573	Including rectilinearly movable
	to its actuator, etc.)	3,3	pawl
556	Including disconnecting ratchet	573.1	And resilient drive
	wheel from platen (e.g.,	574	Including pawl carrier coaxial
	declutching ratchet, etc.)	3 / 1	with ratchet wheel
556.1	Via relatively displaceable	574.1	And means to regulate pawl
	pin and slot members		engagement or drive
556.2	Via toothed ring and locking	575	Including means to regulate
	member(s)		pawl engagement or drive
556.3	Including pivotable locking	575.1	By movable ratchet-wheel
	member(s)		shield
556.4	Including radially	575.2	By stop adjustable to limit
	displaceable locking member(s)		movement of actuator
557	Via ball or roller clutching	576	.Via foldable line-space actuator
	member(s)	577	.With means to prevent reverse
558	Via binding jaws gripping		rotation or ensure full
	annular flange between jaws		increment (e.g., for
559	Via friction plate members		"backlash" prevention)
	engageable by axial	578	SHEET OR WEB (E.G., RECORD-MEDIUM
	displacement (e.g., pressure		FEEDING MECHANISM)
	plate, etc.)	579	.Including skew correction
559.1	Friction members have		responsive to position of
	cooperating conical surfaces		sheet or web

F00		505	
580	.Including forming indicia on record-medium during typing to	597	With subsequent line-spacing independent of platen
581	find next line to be typedTo find last-produced slit or	598	With digitally selected, typewriter-actuated feed to
582	hole or notch in sheet .Including programmed-control- system for record-medium feed		<pre>selected line to be typed (e.g., via "dialing" disc, etc.)</pre>
F02	(e.g., on auxiliary record)	599	Insertion of sheet relative to other record-medium
583	For web record-medium	599.1	
583.1	Program on auxiliary-record tape	599.1	With sheet-associating attachment (e.g., collating-
583.2	Program is indicia on	600	table, etc.)
583.3	rotatable disc or drumProgram is indicia on record- medium	600	<pre>Via feed throat having gate (e.g., actuated by power, etc.)</pre>
E02 /		600.1	With platen repositioned for
583.4	Including plural speed record- medium feed	000.1	sheet insertion
584	.Including feed of plural record-	600.2	With feed-roller repositioned
301	media arranged side-by-side		for sheet insertion
	(e.g., fed independently of	600.3	And sheet feed by additional
	platen)		feed-roller couple
585	By divided platen	600.4	Coincident to pivoting of
585.1	With positive clutch for		sheet guide
	simultaneous rotation of	601	With laterally movable sheet
	platen sections		holder (e.g., having
586	.Including feed of tally strip		concurrent feed movement)
	record-medium (e.g., plural	602	With sheet ejector
F07	tally strips)	603	Via chute(s) or feed-roller
587	And feed of endless transfer- medium	603.1	<pre>couple (e.g., plural chutes)Pivotable chute</pre>
588	On plural-platen (e.g., divided	604	Attachment to typewriter for
589	platen) typewriterWith locking or interlocking	001	converting to condensed- billing operation
309	mechanism (e.g., line lock,	605	.For feeding plural record media
	etc.)	005	concurrently or selectively
590	Including feed varied for	606	Plural webs superimposed and
591	amount of tally strip on spoolIncluding tally-strip feed		aligned to each other during typing
	transverse to feed of main	607	Including movement of one
	record-medium		record-medium relative to
592	Including feed independent of		another
	platen	607.1	In lateral direction (e.g.,
593	With cutting or spring		lateral shift of web or sheet
	tensioning of tally strip		carrier)
594	Including structure or mounting or adjustment of tally-strip	607.2	By insertion of additional record-medium
	roll	607.3	With concurrent feed-roller
594.1	And roll for transfer-medium	C00	and line-spacing control
595	.Including insertion of sheet	608	With clamp for holding one
	from front of platen (e.g.,	608.1	record-medium stationary
	<pre>for "condensed billing", via sheet guide, etc.)</pre>	000.1	Selectively engageable feed- rollers or feed-roller brakes
596	Including feed responsive to	608.2	By auxiliary feed-roller or
•	presence of sheet		platen section (e.g., separate feed of sheets)

608.3	By retrograde movement of one record-medium	621	<pre>With web cutter (e.g., tear bar, wire tool, etc.)</pre>
608.4	Including differential	621.1	For longitudinal cut
	movement by separate drive	621.2	And gauge for tear-off length
	means	622	.With holder for single sheet
609	Mount for plural web rolls	022	
610			(e.g., clip, backing sheet,
910	Including sheet-associating	600	etc.)
	attachment (e.g., pin-band-	623	Mounted on carriage (e.g., for
	encircling platen)		extra-wide sheet, cylindroidal
610.1	With table or frame (e.g.,		holder, etc.)
	collating-table)	624	.For feeding sheet from stack or
610.2	Front collating-table with		pack holder
	sheet-holding means (e.g.,	625	And delivering to sheet
	clamps)		receiver (e.g., by roller
610.3	Including pin-holding means		couple)
610.4	Including indicator	626	By engaging between flap and
611	.For feeding web record-medium		body of envelope
612	Feeding web or sheet in	627	By pneumatic means
	perpendicular directions	628	By reciprocating of oscillating
613	With web supply or takeup or	020	member
013	mount therefor (e.g., web	629	By endless-band or rotating
	cartridge, etc.)	027	(e.g., feed-roller) member
613.1	Including insertion of leading	630	.Including aligning of sheet edge
013.1	edge of web	030	
C12 2		621	prior to typing
613.2	For folded or creased web	631	Aligner moved to operate
	(e.g., fan-folded web)		concurrently with
613.3	With web smoother		disengagement of feed means
613.4	Holder for fan-folded web	632	Including leading-edge aligner
	mounted to move with carriage		located past print-point
614	Including web rewind	632.1	Adjustable leading-edge
614.1	Connected to platen drive		aligner
615	Mounted on typewriter having	633	Side-edge aligner (e.g.,
	transversely moving carriage		adjustable, etc.)
615.1	Mounted to move with carriage	633.1	On rear sheet table or apron
615.2	For feeding tape in direction	633.2	Adjustable aligner (e.g.,
	of print-line (i.e.,		with lock)
	transverse feed)	634	.Including friction-feed means
616	By pin-feed means (e.g.,		(e.g., band)
	reciprocating pin, etc.)	635	By endless-feed band
616.1	Including laterally adjustable	636	By roller couple (e.g.,
010.1	bands (e.g., tractor feed,	030	rotatable pinch rollers, etc.)
	etc.)	636.1	With typewriter-actuated
616.2	Pin feed on endless band	030.1	control of feed-roller
616.3			position
010.3	Pin wheel (e.g., on platen	636.2	-
C17	cylinder)	030.2	Including intermediate drive
617	By friction-feed means (e.g.,		means (e.g., gears) connecting
	reciprocating finger or	626.2	feed-roller to platen
610	gripper or pinch roller, etc.)	636.3	Including feed-roller having
618	With web tensioning or braking		equalizing or pressure-
619	Including web guiding or	625	adjusting means
	aligning (e.g., laterally,	637	Including lower feed-roller(s)
	relative to print-line, etc.)		(e.g., pressure roller, etc.)
620	Including web shifting to view	637.1	Including concurrent control
	print-line		for disengagement of upper and
			lower feed rollers

637.2 637.3	Mounted on apronMounted on plural roller	651	<pre>Cylindrical platen axially adjustable</pre>
007.00	carriers	652	Platen movment conjointly with
637.4	Including plural parallel		type-face movement
637.5	carrier pivotsIncluding single carrier	653	By eccentric mounting for platen
037.3	pivot intermediate front and	654	.Character-size platen (e.g.,
	rear lower feed rollers		anvil, disc, etc.)
637.6	Mounted on single carrier	655	Mounted on movable carrier
	having pivot intermediate	656	.Bar (i.e., line size) platen
	front and rear lower feed-	657	Mounted on cylindrical member
620	rollers	658	.Semicylindrical platen
638	Including feed or pressure	659	.Cylindrical platen
	roller mounted on "paper- finger"	660	Detachably secured to platen carriage
639	Including upper feed-roller(s)	660.1	By axially displaceable
	(e.g, pressure roller, etc.)		supporting shaft
639.1	Mounted on "paper bail"	660.2	By pivoted member overlying
639.2	Disengaged from platen by		platen shaft
	<pre>compound movement of bail (e.g., on double pivoted</pre>	660.3	By disengageable platen sectors
	mount)	661	With sound-muffling means
640	With cooperating scale	661.1	Including plural layers of
641	Feed-roller structure or brake	001.1	varying hardness
	or spacer therefor	661.2	Including cylinder containing
642	<pre>.Including sheet guide (e.g., for sheet insertion, etc.)</pre>	001.2	fluent (e.g., fluid, etc.) material
643	Platen-encircling band	661.3	Including cylindrical sections
644	Sheet stripper (e.g., for preventing reentry, etc.)	001.3	or rings (e.g., of character-
645	Sheet holddown member (e.g.,	CC1 4	space width)
043	"paper-finger", end-of-page	661.4	Including a wound member
	holddown, etc.)	662	Including particular surface
645.1	With aperture or notch (e.g.,		characteristic (e.g.,
013.1	for typing therethrough, etc.)		<pre>translucent, pigment yielding, corrugated, of varying</pre>
645.2	On or with erasing plate or		hardness, etc.)
	signal or indicator	663	LOCKING OR INTERLOCKING MECHANISM
645.3	Movably mounted on movable	664	.For interlocking plural
	finger carrier	001	functions or mechanisms
645.4	Pivotally mounted holddown	665	Plural carriage-moving
645.5	Mounted in front of platen axis		mechanisms (e.g., escapement, tabulation, etc.)
646	Sheet table at delivery side of	666	Plural keys or key linkages
647	platenMovable sheet table or apron		(e.g., for type-face
047	(e.g., detachable, extensible,	667	selection, etc.)
	etc.)		.Key-board lock using interlock mechanism
647.1	<pre>Pivotable (e.g., fingerlike support)</pre>	668	.Locking means actuated in response to a condition
648	PLATEN OR PLATEN-MOVING MECHANISM	669	Failure of power supply
649	.For movement of platen other	670	End-of-page lock (e.g.,
	than for line-spacing		responsive to preset
650	Cylindrical platen adjustable		condition)
	to facilitate compactness	670.1	Responsive to end-of-page sensor

670.2	Including lock for platen or line-space	690.1	With viewing window (e.g., having reflection eliminator)
670.3	By cam groove and follower	690.2	And externally protruding
671	End of maximum typed line		(e.g., key-board, etc.)
671.1	Actuated by space-bar		operating means
671.2	Universal-bar lock (e.g,	690.3	With externally protruding
071.2	pivoted latch, slidable latch,	0,00.5	operating means
	etc.)	690.4	Including means facilitating
671.3	,	050.1	opening of enclosure
671.4	Actuated by paper-finger	691	
	Interposed component	091	<pre>.Frame, casing, or support for typewriter</pre>
672	Escapement lock	692	
672.1	Type-bar lock	692	Having means facilitating
672.2	Key-lever lock (e.g., by hook	602	interchange of parts
	on key-lever)	693	Housing structure
673	Coin-controlled lock (e.g.,	693.1	For ink-ribbon spool (e.g.,
	responsive to print-lines,		spool cover, etc.)
	time, etc.)	694	Made of particular material
674	.For locking carriage in centered		(e.g., plastic, etc.)
	position (e.g., with shipping	695	.Means for correcting typing
	support)		errors (e.g., by abrasive
675	And disengaging case-shift lock		eraser, etc.)
676	.Key-board security lock (e.g.,	696	By laser beam or adhesive-
	cover plate, etc.)		surface ribbon or chemical
677	.For locking selected group(s) of		eradicator
	keys	697	By overprinting (e.g, with
678	.For locking key in actuated		coated material) to cancel
	position (e.g., to remove		error
	type-face from ink pad)	697.1	With drive for ribbon having
679	MEANS AUXILIARY TO TYPEWRITING		coating thereon
679	MEANS AUXILIARY TO TYPEWRITING FUNCTION	698	coating thereonWith erasing table
679 680	FUNCTION	698 699	_
	FUNCTION .Means for collapsing typewriter		With erasing table
	FUNCTION .Means for collapsing typewriter or support for record-medium	699	With erasing tableWith receptacle for refuse
680	FUNCTION .Means for collapsing typewriter or support for record-medium or copy	699 700	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium
	FUNCTION .Means for collapsing typewriter or support for record-medium or copy By tilting typewriter (e.g.,	699	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium.Means for cleaning, or
680	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.)	699 700	 .With erasing table .With receptacle for refuse .With means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of,
680	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to	699 700 701	 With erasing table With receptacle for refuse With means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-face
680	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural	699 700	<pre>With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g.,</pre>
680 681 682	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.)	699 700 701	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush,
680	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to	699 700 701 702	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)
680 681 682	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame	699 700 701	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving
680 681 682	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to	699 700 701 702 702.1	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush
680 681 682 683 684	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame	699 700 701 702 702.1 703	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator means
680 681 682	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into	699 700 701 702 702.1	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill
680 681 682 683 684 685	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case	699 700 701 702 702.1 703 704	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustment
680 681 682 683 684	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of	699 700 701 702 702.1 703	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of
680 681 682 683 684 685	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for	699 700 701 702 702.1 703 704 705	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-line
680 681 682 683 684 685 686	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element	699 700 701 702 702.1 703 704	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head-
680 681 682 683 684 685 686	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement	699 700 701 702 702.1 703 704 705 705.1	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrier
680 681 682 683 684 685 686	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement .Means for increasing typewriter	699 700 701 702 702.1 703 704 705 705.1 705.2	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrierWith word counter
680 681 682 683 684 685 686	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement .Means for increasing typewriter noise	699 700 701 702 702.1 703 704 705 705.1	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrierWith word counterBy means driven from carriage
680 681 682 683 684 685 686	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement .Means for increasing typewriter noise .Means for muffling typewriter	699 700 701 702 702.1 703 704 705 705.1 705.2	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrierWith word counterBy means driven from carriage (e.g., for indicating end of
680 681 682 683 684 685 686 687 688	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement .Means for increasing typewriter noise .Means for muffling typewriter noise	699 700 701 702 702.1 703 704 705 705.1 705.2 705.3	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrierWith word counterBy means driven from carriage (e.g., for indicating end of print-line, etc.)
680 681 682 683 684 685 686	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement .Means for increasing typewriter noise .Means for muffling typewriter noise .By sound-barrier enclosure for	699 700 701 702 702.1 703 704 705 705.1 705.2	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrierWith word counterBy means driven from carriage (e.g., for indicating end of print-line, etc.)Scale for facilitating
680 681 682 683 684 685 686 687 688	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement .Means for increasing typewriter noise .Means for muffling typewriter in noise .By sound-barrier enclosure for typewriter (e.g., by sound-	699 700 701 702 702.1 703 704 705 705.1 705.2 705.3	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrierWith word counterBy means driven from carriage (e.g., for indicating end of print-line, etc.)
680 681 682 683 684 685 686 687 688	FUNCTION .Means for collapsing typewriter or support for record-medium or copy .By tilting typewriter (e.g., via collapsible legs, etc.) .By moving key-board relative to frame (e.g., into plural operating positions, etc.) .By moving carriage relative to frame .By moving type-bars relative to frame .Including typewriter built into carrying case .Buffer (e.g., dashpot, of particular material, etc.) for movable typewriter element .Having nonimpact movement .Means for increasing typewriter noise .Means for muffling typewriter noise .By sound-barrier enclosure for	699 700 701 702 702.1 703 704 705 705.1 705.2 705.3	With erasing tableWith receptacle for refuseWith means for rubbing eraser over surface of record-medium .Means for cleaning, or facilitating cleaning of, type-faceBy contacting type-face (e.g., via type-face cleaner, brush, etc.)Including means for moving brush .Indicator meansFor indicating typist's skill or needed adjustmentFor indicating position of carriage along print-lineOf carriage for type-head- carrierWith word counterBy means driven from carriage (e.g., for indicating end of print-line, etc.)Scale for facilitating

705.5	Scale for facilitating centering of print-line		
706	For indicating position of line or end-of-page	CBOSS-B	REFERENCE ART COLLECTIONS
706.1	By scale mounted on paper table		
707	By means driven from platen cylinder	900 901 902	CHEMICAL-SYMBOL CHARACTER CONTINUOUSLY ROTATING TYPE-HEAD STEPPING-MOTOR DRIVE FOR WEB FEED
707.1	Drive initiated by detector of record-medium	903	STEPPING-MOTOR DRIVE FOR WEB FEED STEPPING-MOTOR DRIVE FOR CARRIAGE FEED
707.2	<pre>Including relatively movable pointer and scale (e.g., rotatable or rectilinearly movable pointer)</pre>	904	SUBSCRIPT OR SUPERSCRIPT CHARACTER
707.3	Scale rotated by gear drive		
707.4	Rotatable scale coaxial with platen cylinder	FOREIGN	ART COLLECTIONS
707.5	With line numbering	EOD 000	OT A GG DELAMED HODETON DOCUMENTO
708	Including detector of record- medium	FOR UUU	CLASS-RELATED FOREIGN DOCUMENTS
708.1	Having electrical contacts separated by record-medium		
709	<pre>For aligning record-medium with print-point or print-line (e.g., for facilitating correction of error, etc.)</pre>		
709.1	By transparent indicator		
709.2	For indicating print-line alignment		
710	Including a page counter		
711	Including a light		
712	<pre>Including means producing an audible sound (e.g., plural tones, etc.)</pre>		
713	<pre>.Attachment for shielding or screening record-medium or typewriter (e.g., against wind, etc.)</pre>		
714	For screening key-board		
715	<pre>.Attachment for guiding fingers or hands of typist (e.g., hand rest)</pre>		
716	<pre>.Attachment for illuminating or viewing (e.g., prism, etc.)</pre>		
717	<pre>.Attachment for holding an article (e.g., pencil, eraser, etc.)</pre>		
718	Copyholder		
718.1	<pre>Actuated by typewriter (e.g., to simulate line-spacing, for web copy, etc.)</pre>		
718.2	With adjustment of line- spacing		
719	MISCELLANEOUS		